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(54) Title: THICKENED ABRASIVE CLEANER

(57) Abstract: Disclosed are aqueous liquid thickened cleaning and/or disinfecting composition comprising: an alkaline source; at least one surfactant selected from anionic surfactants, non-ionic surfactants, and mixtures thereof; at least one thickener selected from polysaccharides, polycarboxylates, polyacrylamides, clays, and mixtures thereof; a solvent selected from alcohols, glycol ethers, and mixtures thereof; at least one abrasive material optionally, one or more materials selected from perfumes and perfume stabilizers, builders, rheology stabilizers; pH and buffering agents, electrolytes, pigments, colorants and the like. Also disclosed are processes for cleaning and/or disinfection of surfaces, especially hard surfaces, wherein the presence of Gram positive type pathogenic bacteria and/or Gram negative type pathogenic bacteria are suspected.



WO 2004/035726 A1

GB03/4416

AMENDED CLAIMS

[received by the International Bureau on 20 April 2004 (20.04.04);
original claims 1-29 replaced by amended claims 1-20 (3 pages)]

AMENDED CLAIMS

[received by the International Bureau on 20 April 2004 (20.04.04);
original claims 1-29 replaced by amended claims 1-20 (3 pages)]

1. A liquid cleaning and/or disinfecting composition comprising:
an alkaline source;
5 at least one anionic surfactant;
at least one clay thickener with at least one further thickener selected from
polysaccharides, polycarboxylates, and polyacrylamides;
a solvent selected from alcohols, glycol ethers, and mixtures thereof;
at least one abrasive material selected from oxides, carbonates, quartzes, siliceous
10 chalk, diatomaceous earth, colloidal silicon dioxide, alkali metasilicates, organic
abrasive materials selected from polyolefins, polyethylenes, polypropylenes,
polyesters, polystyrenes, acetonitrile-butadiene-styrene resins, melamines,
polycarbonates, phenolic resins, epoxies and polyurethanes, natural materials
selected from rice hulls, corn cobs, and the like, nepheline syenite, or talc and
15 mixtures thereof;
water; and
optionally, one or more materials selected from further surfactants, perfumes and
perfume stabilizers, builders, rheology stabilizers; pH and buffering agents,
electrolytes, pigments, and colorants.
20
2. The composition according to claim 1 wherein the alkaline source is selected from
alkaline metal hydroxides, carbonates, bicarbonates, and mixtures thereof.
3. The composition according to any one of claims 1 and 2 wherein the thickener is
a mixture of polysaccharide and clay.
4. The composition according to any one of claims 1 and 2 wherein the thickener is
25 a mixture of polycarboxylate and clay.
5. The composition according to any one of claims 1 to 4 wherein the
polysaccharide thickener is selected from cellulose, alkyl celluloses, alkoxy
celluloses, hydroxy alkyl celluloses, alkyl hydroxy alkyl celluloses, carboxy alkyl
celluloses, carboxy alkyl hydroxy alkyl celluloses, xanthan gum, guar gum, locust
30 bean gum, tragacanth gum, or derivatives thereof.

6. The composition according to any one of claims 1 to 5 wherein the solvent is an alcohol.
7. The composition according to claim 6 wherein the alcohol is benzyl alcohol.
8. The composition according to any one of claims 1 to 6 wherein the solvent is a glycol ether.
9. The composition according to claim 8 wherein the glycol ether is selected from propylene glycol phenyl ether and ethylene glycol monohexyl ether.
10. The composition according to any one of claims 1 to 19 wherein the abrasive material is a carbonate.
11. A liquid cleaning and/or disinfecting composition comprising:
from about 0.01 to about 2 wt% of an alkaline source;
from about 0.01 to about 20 wt% of at least one anionic surfactant;
from about 0.1 to about 10 wt% of at least one clay thickener with at least one further thickener selected from polysaccharides, polycarboxylates, polyacrylamides;
from about 0.1 to about 10 wt% of a solvent selected from alcohols, glycol ethers, and mixtures thereof;
from about 1 to about 40 wt% of at least one abrasive material selected from oxides, carbonates, quartzes, siliceous chalk, diatomaceous earth, colloidal silicon dioxide, alkali metasilicates, organic abrasive materials selected from polyolefins, polyethylenes, polypropylenes, polyesters, polystyrenes, acetonitrile-butadiene-styrene resins, melamines, polycarbonates, phenolic resins, epoxies and polyurethanes, natural materials selected from rice hulls, corn cobs, and the like, nepheline syenite, or talc and mixtures thereof;
water; and
optionally, one or more materials selected from further surfactants, perfumes and perfume stabilizers, builders, rheology stabilizers; pH and buffering agents, electrolytes, pigments, and colorants.

12. The composition according to claim 11 wherein the alkaline source is selected from alkaline metal hydroxides, carbonates, bicarbonates, and mixtures thereof.
13. The composition according to any one of claims 11 and 12 wherein the thickener is a mixture of polysaccharide and clay.
- 5 14. The composition according to any one of claims 11 and 12 wherein the thickener is a mixture of polycarboxylate and clay.
15. The composition according to any one of claims 11 to 14 wherein the polysaccharide thickener is selected from cellulose, alkyl celluloses, alkoxy celluloses, hydroxy alkyl celluloses, alkyl hydroxy alkyl celluloses, carboxy alkyl celluloses, carboxy alkyl hydroxy alkyl celluloses, xanthan gum, guar gum, locust
10 bean gum, tragacanth gum, or derivatives thereof.
16. The composition according to any one of claims 11 to 15 wherein the solvent is an alcohol.
17. The composition according to claim 16 wherein the alcohol is benzyl alcohol.
- 15 18. The composition according to any one of claims 11 to 15 wherein the solvent is a glycol ether.
19. The composition according to claim 18 wherein the glycol ether is selected from propylene glycol phenyl ether and ethylene glycol monohexyl ether.
20. The composition according to any one of claims 11 to 19 wherein the abrasive
20 material is a carbonate.